

This listing of claims will replace all prior versions, and listings, of claims in the application:

The Status of the Claims

1. (Currently Amended) A method comprising:
initializing a subset of a memory;
before loading an operating system, creating a memory descriptor for subsets
of a remaining memory, the memory descriptor being accessible by the operating system;
loading ~~[[an]]the~~ operating system;
initializing the subsets of ~~[[a]]the~~ remaining memory identified in the memory
descriptor during operating system idle periods; and
creating a notification for the operating system to dynamically incorporate the
subsets of the remaining memory.
2. (Original) A method as defined in claim 1, wherein the memory is error
correction control memory.
3. (Original) A method as defined in claim 1, wherein initializing the subset of
the memory comprises setting the subset of the memory to a default state.
4. (Original) A method as defined in claim 1, wherein the notification for the
operating system to dynamically incorporate the subsets of the remaining memory comprises
a hot plug event.

5. (Original) A method as defined in claim 1, wherein the subsets of the remaining memory are dynamically incorporated by updating a memory map.

6. (Currently Amended) A method as defined in claim 1, further comprising:
~~creating a memory descriptor for the subsets of the remaining memory before~~
~~loading the operating system;~~
determining ~~[[the]]~~a memory map; and
analyzing the memory descriptor to determine a presence of the subsets of the remaining memory to be initialized.

7. (Currently Amended) A method comprising:
initializing a subset of a memory;
before loading an operating system, creating a memory descriptor for subsets
of a remaining memory, the memory descriptor being accessible by the operating system; and
loading ~~[[an]]~~the operating system~~[[;]]~~.

8. (Original) A method as defined in claim 7, wherein the memory is error correction control memory.

9. (Original) A method as defined in claim 7, wherein initializing the subset of the memory comprises setting the subset of the memory to a default state.

10. (Original) A method as defined in claim 7, wherein the subset of the memory is of a size at least as large as a minimum requirement associated with the operating system.

11. (Currently Amended) A method comprising:
determining a memory map of a memory;
before loading an operating system, creating a memory descriptor identifying a subset of memory that has not been initialized, the memory descriptor being accessible by the operating system;
analyzing ~~[[a]]~~the memory descriptor to determine a presence of the subsets of the ~~remaining~~ memory to be initialized;
initializing the subsets of the ~~remaining~~-memory identified in the memory descriptor during operating system idle periods; and
creating a notification for the operating system to dynamically incorporate the subsets of the ~~remaining~~-memory.

12. (Currently Amended) A method as defined in claim 11, wherein initializing the subsets of the ~~remaining~~ memory during operating system idle periods comprises setting the subsets of the ~~remaining~~ memory to a default state.

13. (Currently Amended) A method as defined in claim 11, wherein the notification for the operating system to dynamically incorporate the subsets of the ~~remaining~~ memory comprises a hot plug event.

14. (Original) A method as defined in claim 11, wherein the memory descriptor comprises at least one of a data structure and an entry in a table.

15. (Currently Amended) A method as defined in claim 11, wherein the subsets of the ~~remaining~~ memory are dynamically incorporated by updating the memory map.

16. (Currently Amended) An apparatus comprising:
a memory initialization module configured to initialize a subset of a memory;
a memory descriptor module configured to generate a data structure to indicate a presence of a subset of a remaining memory before an operating system is loaded, the memory descriptor being accessible by the operating system;
a system loader configured to load ~~[[an]]~~the operating system; and
a hot adder module configured to create a notification for the operating system to dynamically incorporate ~~the subset~~subset of ~~[[a]]~~the remaining memory.

17. (Original) An apparatus as defined in claim 16, wherein the memory initialization module is configured to set the subset of the memory to a default state.

18. (Original) An apparatus as defined in claim 16, wherein the memory initialization module is configured to set the subsets of the remaining memory to the default state during operating system idle periods.

19. (Original) An apparatus as defined in claim 16, wherein the notification for the operating system to dynamically incorporate the subsets of the remaining memory

comprises a hot plug event.

20. (Original) An apparatus as defined in claim 16, wherein the subsets of the remaining memory are dynamically incorporated by updating a memory map.

21. (Currently Amended) An apparatus as defined in claim 16, further comprising:

a subset generator configured to create the subsets of the remaining memory;

and

~~a memory descriptor module configured to generate a data structure to indicate a presence of the subsets of the remaining memory.~~

22. (Currently Amended) An article of manufacture having instructions stored thereon that, when executed, cause a machine to:

initialize a subset of a memory;

create a memory descriptor for the subsets of a remaining memory before loading the operating system, the memory descriptor being accessible by the operating system;

load ~~[[an]]~~the operating system;

initialize subsets of ~~[[a]]~~the remaining memory identified in the memory descriptor during operating system idle periods; and

create a notification for the operating system to dynamically incorporate the subsets of the remaining memory.

23. (Original) An article of manufacture as defined in claim 22 having instructions stored thereon that, when executed, cause the machine to initialize the subset of the memory by setting the subset of memory to a default state.

24. (Original) An article of manufacture as defined in claim 22 having instructions stored thereon that, when executed, cause the machine to initialize the subsets of the remaining memory during operating system idles by setting the subsets of the remaining memory to a default state.

25. (Original) An article of manufacture as defined in claim 22 having instructions stored thereon that, when executed, cause the machine to update a memory map to dynamically incorporate the subsets of the remaining memory.

26. (Currently Amended) An article of manufacture as defined in claim 22 having instructions stored thereon that, when executed, cause the machine to:

~~create a memory descriptor for the subsets of the remaining memory before loading the operating system;~~

determine ~~[[the]]~~ a memory map; and

analyze the memory descriptors to determine a presence of the subsets of the remaining memory to be initialized.

27. (Currently Amended) An apparatus comprising:

a memory initialization module configured to initialize a subset of a memory;

a subset generator configured to create the subsets of the remaining memory;

a memory descriptor module configured to generate a data structure to indicate a presence of the subsets of the remaining memory before loading an operating system, the remaining memory being accessible by the operating system; and
a system loader configured to load ~~[[an]]~~the operating system.

28. (Original) An apparatus as defined in claim 27, wherein the memory initialization module is configured to set the subset of the memory to a default state.

29. (Currently Amended) An apparatus comprising:
an operating system;
a memory descriptor module configured to, before loading the operating system, generate a data structure accessible by the operating system to indicate a presence of a subset of a memory that is not initialized;
a memory initialization module configured to initialize ~~subsets~~the subset of ~~[[a]]~~the memory; and
a hot adder module configured to create a notification for the operating system to dynamically incorporate ~~subsets~~the subset of the memory.

30. (Original) An apparatus as defined in claim 29, wherein the memory initialization module is configured to set the subset~~subset~~ of the memory to a default state.

31. (Original) An apparatus as defined in claim 29, wherein the notification for the operating system to dynamically incorporate the ~~subsets~~subset of the memory comprises a

hot plug event.

32. (Currently Amended) An apparatus as defined in claim 29, wherein the ~~subset~~subset of the remaining memory ~~are~~is dynamically incorporated by updating a memory map.

33. (Currently Amended) An apparatus as defined in claim 29, wherein the memory initialization module is configured to set the ~~subset~~subset of the remaining memory to the default state during operating system idle periods.

34. (Currently Amended) An article of manufacture having instructions stored thereon that, when executed, cause a machine to:

initialize a subset of a memory;

create a memory descriptor accessible by an operating system for subsets of a remaining memory before loading the operating system; and

load ~~[[an]]~~the operating system~~[[;]]~~.

35. (Original) An article of manufacture as defined in claim 34 having instructions stored thereon that, when executed, cause the machine to initialize the subset of the memory by setting the subset of the memory to a default state.

36. (Cancelled)

37. (Currently Amended) An article of manufacture having instructions stored thereon that, when executed, cause a machine to:

determine a memory map of a memory;

create a memory descriptor accessible by an operating system for subsets of a remaining memory before loading the operating system;

analyze [[a]]the memory descriptor to determine a presence of the subsets of [[a]]the remaining memory to be initialized;

initialize the subsets of the remaining memory identified in the memory descriptor during operating system idle periods; and

create a notification for the operating system to dynamically incorporate the subsets of the remaining memory.

38. (Original) An article of manufacture as defined in claim 37 having instructions stored thereon that, when executed, cause the machine to initialize the subsets of the remaining memory during operating system idle periods by setting the subsets of the remaining memory to a default state.

39. (Original) An article of manufacture as defined in claim 37 having instructions stored thereon that, when executed, cause the machine to create the notification for the operating system to dynamically incorporate the subsets of the remaining memory by creating a hot plug event.

40. (Currently Amended) An article of manufacture as defined in claim 37 having instructions stored thereon that, when executed, cause the machine to dynamically ~~incorporated~~incorporate the subsets of the remaining memory by updating the memory map.